

Request - Paul Schulwitz

Access DB# 139390

RESEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name:

Sabirha Qaz

Examiner #:

74141

Date:

12/2/04

Art Unit:

1616

Phone Number 30

Serial Number:

10/670,766

Mail Box and Bldg/Room Location:

20622

Results Format Preferred (circle): PAPER DISK E-MAIL

4C70 Room 4A45

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention:

Herbicidal composition

Inventors (please provide full names):

Jutta Glock

Earliest Priority Filing Date:

5/31/02

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search

- ① Comps of formula (Ia) in Cl 7
- ② Composition of Comps of formula (I) and (IIa) as in Cl 1

Please see attached sheets

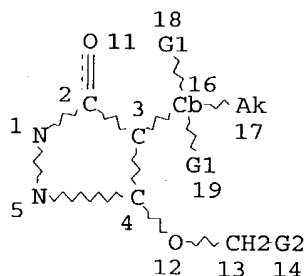
Thank you

PT

=> d que l17

L11

STR



Ak @20

Ak~X
@21 22O~Ak
@23 24O~Ak~X
@25 26 27O=C~Ak
28 @29 30Ak~OH
@31 32

VAR G1=20/21/23/25/29/31

VAR G2=O/S

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 17

CONNECT IS E1 RC AT 20

CONNECT IS E1 RC AT 24

CONNECT IS E1 RC AT 30

CONNECT IS E2 RC AT 31

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L13 1 SEA FILE=REGISTRY SSS FUL L11

L14 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

L16 6 SEA FILE=MARPAT SSS FUL L11

L17 5 SEA FILE=MARPAT ABB=ON PLU=ON L16 NOT L14

=> d l17 ibib abs qhit 1-5

L17 ANSWER 1 OF 5 MARPAT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 139:175195 MARPAT

TITLE: Selective herbicidal compositions for cereals
containing MCPA, bromoxynyl and hydroxypyrazolinone
derivatives

INVENTOR(S): Brandl, Matthias

PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

G9 = 150

H₂C—G12—G30
150

G12 = O

MPL: claim 1

NTE: additional ring formation also claimed

NTE: substitution is restricted

NTE: or salts

STE: or diastereoisomers

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 5 MARPAT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 139:149659 MARPAT

TITLE: Preparation of phenyl substituted heterocyclic
compounds for use in herbicide compositionsINVENTOR(S): Friedmann, Adrian Alberto; Stoller, Andre; Wendeborn,
Sebastian

PATENT ASSIGNEE(S): Syngenta Participations Ag, Switz.

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

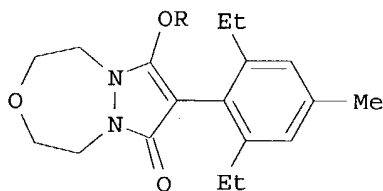
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003062244	A1	20030731	WO 2003-EP555	20030121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG EP 1468000 A1 20041020 EP 2003-702483 20030121 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK PRIORITY APPLN. INFO.: CH 2002-119 20020122 WO 2003-EP555 20030121				

GI

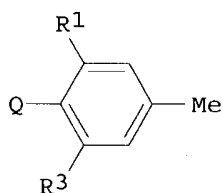


I

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017972	A2	20010315	WO 2000-EP8656	20000905
WO 2001017972	A3	20010927		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2382435	AA	20010315	CA 2000-2382435	20000905
EP 1210333	A2	20020605	EP 2000-965923	20000905
EP 1210333	B1	20041117		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AU 767356	B2	20031106	AU 2000-76503	20000905
EP 1481970	A1	20041201	EP 2004-13876	20000905
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRIORITY APPLN. INFO.:			CH 1999-1642	19990907
			EP 2000-965923	20000905
			WO 2000-EP8656	20000905

GI



AB Title compds. [I; R1, R3 = Et, haloethyl, ethynyl, alkoxy, haloalkoxy, alkylcarbonyl, hydroxyalkyl, alkoxycarbonyl; Q = (substituted) dioxopyrazolinyl, dioxopyrrollyl, dioxofuranyl, dioxothienyl, dioxopyranlyl, dioxothiazinyl, etc.] were prepared. Thus, hexahydropyridazine dihydrobromide and Et3N in xylene were heated at 60° and then di-Et (4-methyl-2,6-diethylphenyl)malonate (analog preparation is given) was added followed by heating at 150° with distillation of Et3N and EtOH to give 2-(2,6-diethyl-4-methylphenyl)-tetrahydropyrazolo[1,2-a]pyridazine-1,3-dione, which was treated with Et3N in THF, DMAP and Me3CCOCl to give 5-oxo-3-pivaloyl-2(2,6-diethyl-4-methylphenyl)-tetrahydropyrazolo[1,2-a]pyridazine. Several I at 500 ppm preemergent and at 250 ppm postemergent gave 50-100% control of Alopecurus, Avena, Lolium, Setaria, Panicum, Sorghum, Digitaria, Echinocloa, and Brachiaria.

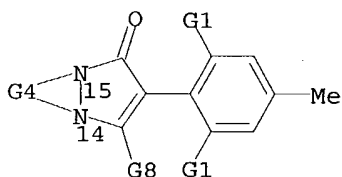
MSTR 1

EP 1209975 B1 20031112
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 AU 762586 B2 20030626 AU 2000-76504 20000905
 AT 253824 E 20031115 AT 2000-965924 20000905
 PT 1209975 T 20040331 PT 2000-965924 20000905
 ES 2211615 T3 20040716 ES 2000-965924 20000905
 PRIORITY APPLN. INFO.: CH 1999-1643 19990907
 WO 2000-EP8661 20000905
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A selective herbicidal composition for controlling grasses and weeds in crops of useful plants, such as cereals, maize and sorghum, comprises a herbicidal compound I, and a herbicide antidote IIa, IIb, IIc, IId, or IIe (Markush included).

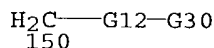
MSTR 1



G1 = Et (SO (1-) G2)
 G8 = 61



G9 = 150



G12 = O
 MPL: claim 1
 NTE: additional ring formation also claimed
 NTE: substitution is restricted
 NTE: or salts
 STE: or diastereoisomers

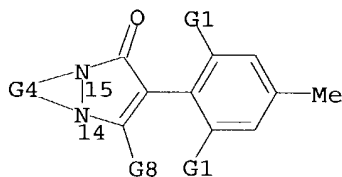
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 5 MARPAT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 134:218317 MARPAT

TITLE: Optionally-safened synergistic herbicidal compositions and preparation of the pyrazole derivative component

sulfonium or ammonium salt of mefenpyr and mefenpyr-diethyl; and/or (d) an additive comprising an oil of vegetable or animal origin, a mineral oil, the alkyl esters thereof or mixts. of these oils and oil derivs. The preparation of I is given.

MSTR 1

G1 = 10

$\text{C}(\text{O})\text{G3}$
10

G8 = 61

$\text{O}-\text{G9}$
61

G9 = 150

$\text{H}_2\text{C}-\text{G12}-\text{G30}$
150

G12 = O

MPL: claim 1

NTE: additional ring formation also claimed

NTE: substitution is restricted

NTE: and salts

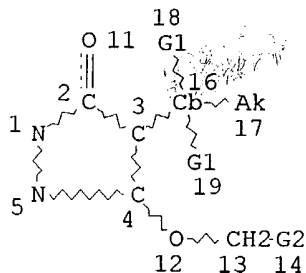
STE: and diastereoisomers

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L11

STR



Ak @20

Ak~X
@21 22O~Ak
@23 24O~Ak~X
@25 26 27O=C~Ak
28 @29 30Ak~OH
@31 32

VAR G1=20/21/23/25/29/31

VAR G2=O/S

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 17

CONNECT IS E1 RC AT 20

CONNECT IS E1 RC AT 24

CONNECT IS E1 RC AT 30

CONNECT IS E2 RC AT 31

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L13 1 SEA FILE=REGISTRY SSS FUL L11

L14 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L13

=> d l14 iall hitstr

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:444237 HCAPLUS

DOCUMENT NUMBER: 122:213917

ENTRY DATE: Entered STN: 28 Mar 1995

TITLE: Substituted aryl keto-enol heterocycles useful as pesticides

INVENTOR(S): Bachmann, Juergen; Bretschneider, Thomas; Fischer, Reiner; Krueger, Bernd-Wieland; Santel, Hans-Joachim; Dollinger, Markus; Erdelen, Christoph; Wachendorff-Neumann, Ulrike

PATENT ASSIGNEE(S): Bayer A.-G., Germany

SOURCE: Ger. Offen., 29 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

INT. PATENT CLASSIF.:

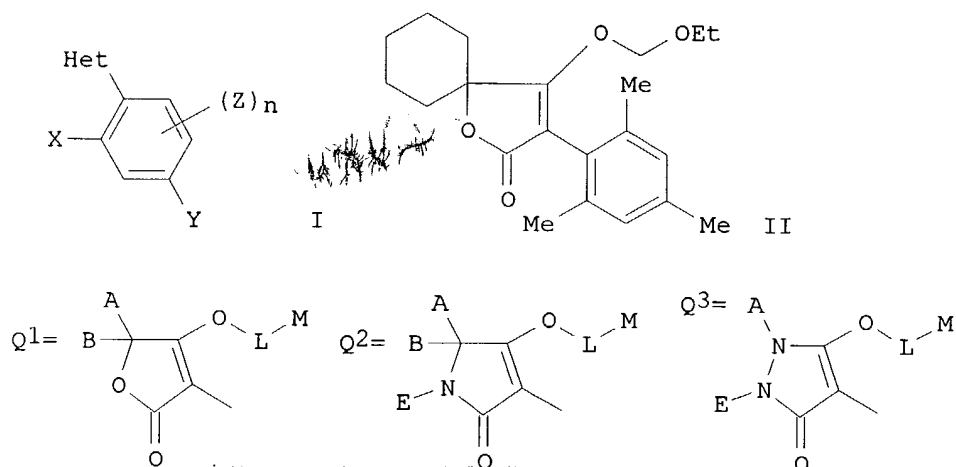
MAIN: C07D307-94
SECONDARY: C07D307-60; C07D207-36; C07D209-96; C07D231-34;
C07D471-04; A01N043-08; A01N043-12; A01N043-36;
A01N043-56; A01N043-90
INDEX: C07D471-04, C07D221-00, C07D209-00; C07D471-04,
C07D231-00, C07D237-00
CLASSIFICATION: 27-6 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 5
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4413669	A1	19950112	DE 1994-4413669	19940420
WO 9501971	A1	19950119	WO 1994-EP2042	19940622
W:	AU, BB, BG, BR, BY, CA, CN, CZ, FI, HU, JP, KR, KZ, LK, NO, NZ, PL, RO, RU, SK, UA, US			
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9470726	A1	19950206	AU 1994-70726	19940622
EP 707576	A1	19960424	EP 1994-919657	19940622
EP 707576	B1	19990303		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT			
BR 9407006	A	19960806	BR 1994-7006	19940622
CN 1129444	A	19960821	CN 1994-193093	19940622
HU 73746	A2	19960930	HU 1996-34	19940622
JP 09500116	T2	19970107	JP 1995-503788	19940622
JP 3404747	B2	20030512		
AT 177093	E	19990315	AT 1994-919657	19940622
ES 2130431	T3	19990701	ES 1994-919657	19940622
US 5683965	A	19971104	US 1996-569194	19960513
PRIORITY APPLN. INFO.:			DE 1993-4322273	A1 19930705
			DE 1994-4413669	A 19940420
			WO 1994-EP2042	W 19940622

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 4413669	ICM	C07D307-94
	ICS	C07D307-60; C07D207-36; C07D209-96; C07D231-34; C07D471-04; A01N043-08; A01N043-12; A01N043-36; A01N043-56; A01N043-90
	ICI	C07D471-04, C07D221-00, C07D209-00; C07D471-04, C07D231-00, C07D237-00

OTHER SOURCE(S): CASREACT 122:213917; MARPAT 122:213917
GRAPHIC IMAGE:



ABSTRACT:

Title compds. I [X = alkyl, halo, alkoxy; Y = H, alkyl, halo, alkoxy, haloalkyl; Z = alkyl, halo, alkoxy; n = 0-3; Het = group Q1, Q2, or Q3; A, B, E = H, (halo-substituted) alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, (hetero)cycloalkyl, (un)substituted (hetero)aryl, aralkyl; or AB or AE forms (un)saturated, (un)interrupted, and/or (un)substituted ring(s); L = alkanediyl; M = variety of organic terminal structures and functional groups including cyano, amide, esters, (thio)ethers, alkynyl, aryl, etc.] and their enantiomers are claimed, and over 30 specific examples are given. The compds. are useful as pesticides, particularly as acaricides, insecticides, fungicides, and herbicides. For example, O-alkylation of 3-(2,4,6-trimethylphenyl)-4-hydroxy-5,5-pentamethylene-Δ³-dihydrofuran-2-one by ClCH₂OEt in CH₂Cl₂ in the presence of Et₃N and a small amount of DMAP at 0-10° gave 53% title compound II. At a rate of 0.02% (spray), II gave 98% kill of OP-resistant Tetranychus urticae, and 100% kill of Panonychus ulmi, after 7 days. Addnl. insecticidal and preemergence herbicidal results are given.

SUPPL. TERM: keto enol heterocycle pesticide prepn; furan pyrrole pyrazole prepn pesticide; insecticide furan pyrrole pyrazole prepn; herbicide furan pyrrole pyrazole prepn; acaricide furan pyrrole pyrazole prepn; fungicide furan pyrrole pyrazole prepn

INDEX TERM: Acaricides
Defoliant
Herbicides
Insecticides
Pesticides
Plant desiccants
(preparation of substituted aryl keto-enol heterocycles as pesticides)

INDEX TERM: Fungicides and Fungistats
(agrochem., preparation of substituted aryl keto-enol heterocycles as pesticides)

INDEX TERM: 3188-13-4, Chloromethyl ethyl ether

ROLE: RCT (Reactant); RACT (Reactant or reagent)
(O-alkylation by; preparation of substituted aryl keto-enol heterocycles as pesticides)

INDEX TERM: 148476-10-2
 ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (O-alkylation of; preparation of substituted aryl keto-enol
 heterocycles as pesticides)

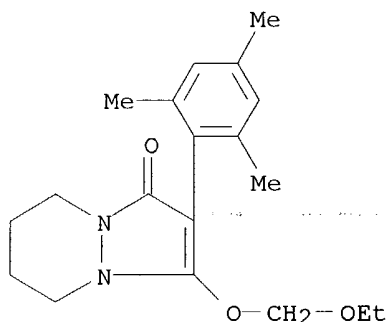
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 161800-28-8P 161800-29-9P 161800-30-2P 161800-31-3P
 161800-32-4P 161800-33-5P 161800-34-6P 161800-35-7P
 161800-36-8P 161800-37-9P 161800-38-0P 161800-39-1P
 161800-40-4P 161800-41-5P 161800-42-6P 161800-43-7P
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 161800-48-2P 161800-49-3P 161800-50-6P 161800-51-7P
 161800-52-8P 161800-53-9P 161800-54-0P 161800-55-1P
 161800-56-2P **161800-57-3P**

ROLE: AGR (Agricultural use); BAC (Biological activity or
 effector, except adverse); BSU (Biological study,
 unclassified); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation); USES (Uses)
 (preparation of substituted aryl keto-enol heterocycles as
 pesticides)

IT **161800-57-3P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except
 adverse); BSU (Biological study, unclassified); SPN (Synthetic
 preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of substituted aryl keto-enol heterocycles as pesticides)

RN 161800-57-3 HCAPLUS

CN 1H-Pyrazolo[1,2-a]pyridazin-1-one, 3-(ethoxymethoxy)-5,6,7,8-tetrahydro-2-
 (2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:185500 HCAPLUS
 DOCUMENT NUMBER: 134:218318
 ENTRY DATE: Entered STN: 16 Mar 2001
 TITLE: Selective **herbicidal** compositions for maize
 and sorghum containing **herbicide** safeners
 INVENTOR(S): **Glock, Jutta**
 PATENT ASSIGNEE(S): Syngenta Participations A.-G., Switz.
 SOURCE: PCT Int. Appl., 43 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 INT. PATENT CLASSIF.:
 MAIN: A01N043-90
 SECONDARY: C07D498-04
 CLASSIFICATION: 5³ (Agrochemical Bioregulators)
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017353	A1	20010315	WO 2000-EP8661	20000905 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2382132	AA	20010315	CA 2000-2382132	20000905 <--
EP 1209975	A1	20020605	EP 2000-965924	20000905 <--
EP 1209975	B1	20031112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
AU 762586	B2	20030626	AU 2000-76504	20000905 <--
AT 253824	E	20031115	AT 2000-965924	20000905 <--
PT 1209975	T	20040331	PT 2000-965924	20000905
ES 2211615	T3	20040716	ES 2000-965924	20000905
PRIORITY APPLN. INFO.:			CH 1999-1643	A 19990907
			WO 2000-EP8661	W 20000905 <--

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 2001017353	ICM	A01N043-90
	ICS	C07D498-04

OTHER SOURCE(S): MARPAT 134:218318

GRAPHIC IMAGE:

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

ABSTRACT:

A selective herbicidal composition for controlling grasses and weeds in crops of useful plants, such as cereals, maize and sorghum, comprises a herbicidal compound I, and a herbicide antidote IIa, IIb, IIc, IId, or IIe (Markush included).

SUPPL. TERM: herbicide antidote safener maize sorghum cereal

INDEX TERM: Cereal (grain)

Corn

Sorghum

(selective herbicidal compns. containing herbicide safeners
for)

INDEX TERM: Herbicide antidotes

Herbicides

Weed control

(selective herbicidal compns. for maize and sorghum
containing herbicide safeners)

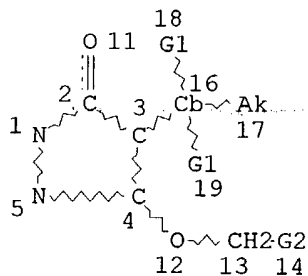
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD.

REFERENCE(S):

- (1) Ciba Geigy Ag; WO 9611574 A 1996 HCAPLUS
- (2) Ciba Geigy Ag; WO 9621652 A 1996 HCAPLUS
- (3) Novartis Erfind Verwalt Gmbh; WO 9947525 A 1999 HCAPLUS
- (4) Novartis Erfind Verwalt Gmbh; WO 0047585 A 2000 HCAPLUS
- (5) Szczepanski, H; WO 9813361 A 1998 HCAPLUS

=> d que
L11

STR



Ak @20

Ak~X
@21 22

O~Ak
@23 24

O~Ak~X
@25 26 27

O~Ak~X
@28 29 30

Ak~OH
@31 32

VAR G1=20/21/23/25/29/31

VAR G2=O/S

NODE ATTRIBUTES:

CONNECT IS E1 RC AT 17

CONNECT IS E1 RC AT 20

CONNECT IS E1 RC AT 24

CONNECT IS E1 RC AT 30

CONNECT IS E2 RC AT 31

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

L15 0 SEA FILE=REILSTEIN SSS FUL L11